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PUBLICATIONS

International Journal Paper

1. **Rajesh Patel**, Pengfei He, Bo Zhang, Chao Zhu, “Transport of interacting and evaporating liquid sprays in a gas-solid riser reactor”, **Chemical Engineering Science**, **100**, 433-444, 2013.
2. **Rajesh Patel**, Dawei Wang, Chao Zhu, Teh C. Ho, “Effect of Cracking in the Feed Injection Zone on Fluid Catalytic Cracking” **AICHE Journal**, **59(4)**, 1226-1235, 2012.
3. Chao Zhu, You Jun, **Rajesh Patel**, Dawei Wang, Teh C. Ho “Interactions of Flow and Reaction in Fluid Catalytic Cracking Risers” **AICHE Journal**, **57(11)**, 3122-3131, 2011.
4. Jun You, **Rajesh Patel**, Dawei Wang, Chao Zhu, “Role of Inter-particle Collision on Solids Acceleration in Risers”, **Particuology**, **8**: 13-18, 2010.

International Conference Paper

1. Vipul Patel, **Rajesh Patel**, Vimal Savsani “Novel heat exchanger design with rectangular shell geometry” at Proceedings of the 14th International Mechanical Engineering Congress & Exposition, November 14-20, 2014, Montreal, Quebec, Canada.
2. Pengfei He, **Rajesh Patel**, Dawei Wang, Chao Zhu “Hydrodynamic Model of Gas-Solids Risers Flow with Continuous Axial and Radial Flow Structure” at the 2014 ASME FEDSM Conference and 12th International Conference on Nanochannels, Microchannels & Minichannels (FEDSM2014/ICNMM12), August 3-7, 2014, Chicago, ILL, USA.
3. **Rajesh Patel**, Pengfei He, Bo Zhang, Chao Zhu, “Transport of interacting and evaporating liquid sprays in a gas-solid riser reactor” **Presented at The 11th International Conference on Gas Liquid & Gas-Liquid-Solid Reactor Engineering, 2013, Seoul, South Korea on August 21, 2013**
4. **Rajesh Patel**, Dawei Wang, Chao Zhu, Teh C. Ho, “Coupling of Hydrodynamics, Vaporization and Reaction with Liquid Spray Injection into a High-Temperature Gas-Solid Reactor”, Proceedings of the ASME/JSME 2011 8th Thermal Engineering Joint Conference, March 13-17, 2011, Honolulu, Hawaii, USA.
5. **Rajesh Patel**, Raivat Patel, Chao Zhu, Chao-Hsin Lin, “Flushing of Non-Condensable Gases by Saturated Steam”, Proceedings of the ASME/JSME 2011 8th Thermal Engineering Joint Conference, March 13-17, 2011, Honolulu, Hawaii, USA.
6. Pengfei He, **Rajesh Patel**, Chao Zhu, Chao-Hsin Lin, “Cooling-Induced Depressurization of a Steam-Filled Chamber”, Proceedings of the ASME/JSME 2011 8th Thermal Engineering Joint Conference, March 13-17, 2011, Honolulu, Hawaii, USA.
7. **Rajesh Patel**, Dawei Wang, Chao Zhu, “Coupling of Hydrodynamics and Catalytic Reaction in Core Flow of Riser Reactors”, AIChE Annual Meeting, Nashville, TN on November 10, 2009.
8. Jun You, **Rajesh Patel**, Dawei Wang, Chao Zhu, “Hydrodynamic Modeling of Gas-solids Riser Flows”, AIChE Annual Meeting: Philadelphia, PA on November 17, 2008.
9. **Rajesh Patel**, Hasit Parikh, “Energy Auditing & Conservation of a Paper Mill” at BIT on 35th ISTE Convection, 2007.